

Abstract Submitted  
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**Improvement of GEANT4 Simulation in Nuclear Internal Conversion Model**<sup>1</sup> CHAO ZHANG, DONGMING MEI, University of South Dakota  
— The internal conversion codes in GEANT4 are corrected. Specifically, we focus on the process of E0 transition of  $^{72}\text{Ge}(n, n'e)$  which is unable to be actually produced in GEANT4 mainly due to insufficient cross-section information in GEANT4 database. In addition, we also provide an approach to provide this part of data and activate the process in GEANT4 simulation.

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